



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 203373

TO: John Chu
Location: Remsen 9d51
Monday, October 02, 2006
Art Unit: 1752
Phone: 571-272-1329
Serial Number: 10 / 773366

From: Jan Delaval
Location: EIC 1700
Remsen 4a30
Phone: 571-272-2504

jan.delaval@uspto.gov

Search Notes

=> fil reg

FILE 'REGISTRY' ENTERED AT 13:29:18 ON 02 OCT 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 29 SEP 2006 HIGHEST RN 909185-74-6
DICTIONARY FILE UPDATES: 29 SEP 2006 HIGHEST RN 909185-74-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

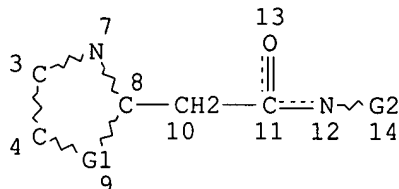
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d sta que l31

L29 STR



VAR G1=S/O

VAR G2=AK/CY

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L31 687 SEA FILE=REGISTRY SSS FUL L29

100.0% PROCESSED 8455 ITERATIONS

687 ANSWERS

SEARCH TIME: 00.00.01

=> d his

(FILE 'HOME' ENTERED AT 13:05:28 ON 02 OCT 2006)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 13:05:42 ON 02 OCT 2006

L1 1 S US20040157157/PN OR (US2004-773366# OR JP2003-32490)/AP,PRN
E SAITO/AU
L2 10 S E3
E SAITO N/AU
L3 1181 S E3-E6,E24,E44
E NAOKI/AU
L4 2 S E3,E50
E MATSUSHITA/AU
L5 3 S E3
E MATSUSHITA T/AU
L6 663 S E3,E72,E77
E MATSUSHITA NAME/AU
L7 18 S E4
E TETSUNORI/AU
E FUJITA/AU
L8 5 S E3
L9 182 S E4,E5
L10 47 S E27
E FUJITA NAME/AU
L11 54 S E4
E AKINORI/AU
E TAKEUCHI/AU
E TAKEUCHI Y/AU
L12 622 S E3-E5
E TAKEUCHI YOH/AU
L13 10 S E5,E6
E TAKEUCHI NAME/AU
L14 64 S E4
E YOHSUKE/AU
E HIGUCHI/AU
L15 2 S E3
E HIGUCHI S/AU
L16 165 S E3
L17 58 S E19
E HIGUCHI NAME/AU
L18 14 S E4
E SATOSHI/AU
L19 2 S E3
L20 4 S E63
E IKEDA/AU
L21 2 S E3
E IKEDA K/AU
L22 868 S E3-E5
E IKEDA KIMI/AU
L23 18 S E3
L24 35 S E4-E9
E IKEDA NAME/AU
L25 82 S E4
E KIMI/AU
SEL RN L1

FILE 'REGISTRY' ENTERED AT 13:11:10 ON 02 OCT 2006

L26 14 S E1-E14
L27 STR
L28 45 S L27
L29 STR L27
L30 31 S L29
L31 687 S L29 FUL
SAV L31 CHU773/A

L32 STR L29
L33 0 S L32 CSS SAM SUB=L31
L34 4 S L26 AND L31

FILE 'HCAOLD' ENTERED AT 13:14:42 ON 02 OCT 2006

L35 6 S L31
SEL AN
EDIT E15-E20 /AN /OREF

FILE 'HCAPLUS' ENTERED AT 13:15:13 ON 02 OCT 2006

L36 9 S E15-E20
L37 6 S L36 NOT (BILLMAN ? OR ASINGER ? OR MAHAPATRA ?)/AU
L38 123 S L31
L39 5 S L38 AND L37
L40 6 S L37,L39
L41 9 S L38 AND L1-L25
E TAKEUCHI YOSUKE/AU
L42 70 S E3,E4
E YOSUKE/AU
L43 2 S L38 AND L42
L44 9 S L41,L43
L45 22 S L38 AND FUJI?/PA,CS
L46 111 S L38 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)
L47 38 S L46 NOT P/DT
L48 73 S L46 NOT L47
L49 64 S L48 AND (PD<=20030210 OR PRD<=20030210 OR AD<=20030210)
L50 102 S L47,L49
L51 5 S L44 AND L46
L52 105 S L50,L51
E RECORDING MATERIAL/CT
L53 3700 S E16
E E4+ALL
L54 209903 S E2+OLD,NT
E E47+ALL
E E2+ALL
E E57+ALL
L55 250289 S E2+OLD,NT
E E66+ALL
L56 243502 S E1+OLD,NT
L57 20 S L52 AND L53-L56
L58 29 S (PHOTO? OR REPROGRAPH?)/SC,SX AND L52
L59 4 S RECORDING AND L52
L60 29 S L57-L59
L61 8 S L60 AND ?DIAZO?
L62 14 S L60 AND ?COUPL?
L63 16 S L61,L62
L64 16 S L51,L63
L65 13 S L60 NOT L64
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 13:24:20 ON 02 OCT 2006

L66 46 S E1-E46
L67 43 S L66 AND (NCOC2-C6 OR NCSC2-C6)/ES
L68 3 S L66 NOT L67

FILE 'HCAPLUS' ENTERED AT 13:25:54 ON 02 OCT 2006
SEL HIT RN L64

FILE 'REGISTRY' ENTERED AT 13:25:58 ON 02 OCT 2006

L69 31 S E47-E77

L70 15 S L69 AND (NCOC2-C6 OR NCSC2-C6)/ES
L71 16 S L69 NOT L70

FILE 'HCAPLUS' ENTERED AT 13:27:12 ON 02 OCT 2006

L72 7 S L71
L73 6 S L72 AND L44
L74 7 S L72 AND FUJI?/PA,CS
L75 2 S L72-L74 AND (PD<=20030210 OR PRD<=20030210 OR AD<=20030210)
L76 2 S L75 AND (?DIAZO? OR ?COUPL?)
L77 2 S L75 AND L53-L56
L78 2 S L75 AND (PHOTO? OR REPROGRAPH?)/SC,SX
L79 2 S L75 AND RECORD?
L80 2 S L75-L79
L81 5 S L74 NOT L80

FILE 'REGISTRY' ENTERED AT 13:29:18 ON 02 OCT 2006

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 13:29:39 ON 02 OCT 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 2 Oct 2006 VOL 145 ISS 15
FILE LAST UPDATED: 1 Oct 2006 (20061001/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l80 all hitstr retable tot

L80 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:717794 HCAPLUS
DN 141:233287
ED Entered STN: 02 Sep 2004
TI Novel azonitrile acetate derivative **coupler** and
recording material containing the same with improved storage
stability
IN **Fujita, Akinori; Saito, Naoki; Takeuchi,**
Yosuke; Higuchi, Satoshi; Arioka, Daisuke; Ikeda, Takayoshi
PA **Fuji Photo Film Co., Ltd., Japan**
SO Jpn. Kokai Tokkyo Koho, 39 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C07D0277-10
ICS B41M0005-28; B41M0005-30; C07D0277-82; C07D0207-20; C07D0211-70;

C07D0233-26; C07D0263-14; C07D0263-56; C07D0277-12
 CC 74-10 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other **Reprographic** Processes)
 Section cross-reference(s): 41

FAN.CNT 1

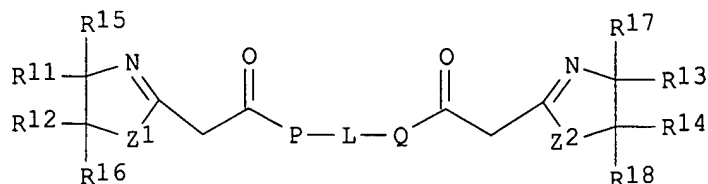
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004244316	A2	20040902	JP 2003-32491	20030210 <--
PRAI	JP 2003-32491		20030210	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2004244316	ICM	C07D0277-10
	ICS	B41M0005-28; B41M0005-30; C07D0277-82; C07D0207-20; C07D0211-70; C07D0233-26; C07D0263-14; C07D0263-56; C07D0277-12
	IPCI	C07D0277-10 [ICM,7]; B41M0005-28 [ICS,7]; B41M0005-30 [ICS,7]; C07D0277-82 [ICS,7]; C07D0207-20 [ICS,7]; C07D0207-00 [ICS,7,C*]; C07D0211-70 [ICS,7]; C07D0211-00 [ICS,7,C*]; C07D0233-26 [ICS,7]; C07D0233-00 [ICS,7,C*]; C07D0263-14 [ICS,7]; C07D0263-56 [ICS,7]; C07D0263-00 [ICS,7,C*]; C07D0277-12 [ICS,7]; C07D0277-00 [ICS,7,C*]
	IPCR	B41M0005-28 [I,A]; B41M0005-28 [I,C*]; B41M0005-30 [I,A]; B41M0005-30 [I,C*]; C07D0207-00 [N,C*]; C07D0207-20 [N,A]; C07D0211-00 [N,C*]; C07D0211-70 [N,A]; C07D0233-00 [N,C*]; C07D0233-26 [N,A]; C07D0263-00 [N,C*]; C07D0263-14 [N,A]; C07D0263-56 [N,A]; C07D0277-00 [I,C*]; C07D0277-10 [I,A]; C07D0277-12 [N,A]; C07D0277-82 [I,A]
	FTERM	2H026/AA07; 2H026/BB42; 2H026/BB43; 2H026/FF05; 4C033/AC10; 4C033/AC16; 4C054/AA03; 4C054/BB01; 4C054/CC01; 4C054/DD04; 4C054/DD19; 4C054/EE01; 4C054/FF01; 4C056/AA01; 4C056/AB01; 4C056/AC02; 4C056/AD01; 4C056/AD03; 4C056/AE02; 4C056/AF01; 4C056/BA13; 4C056/CA12; 4C069/AB03

OS MARPAT 141:233287

GI



I

AB Disclosed is the novel azonitrile acetate derivative **coupler** which is represented by I (R11-18 = H, alkyl, aryl, etc.; P, Q = single bond, O, amino; L = single bond, divalent organic group; and Z1,2 = S, O, etc.;). Also disclosed is the **recording** material containing said **coupler** and a **diazonium** salt, in which the **diazonium** salt is encapsulated in a microcapsule.

ST azonitrile acetate deriv **coupler diazonium salt**
recording material

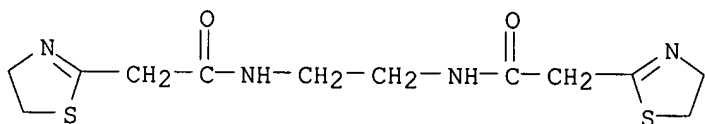
IT **Diazo process**
 (novel azonitrile acetate derivative **coupler** for
recording material with improved storage stability)

IT 748795-41-7P 748795-42-8P 748795-43-9P
 748795-44-0P
 RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP
 (Preparation); USES (Uses)
 (novel azonitrile acetate derivative **coupler** for
recording material with improved storage stability)

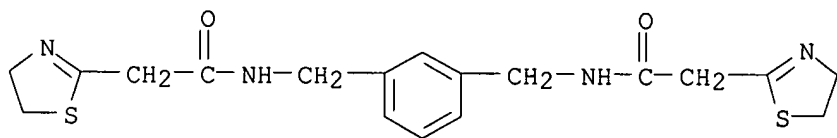
IT 75-75-2, Methanesulfonic acid 105-56-6, Ethyl cyanoacetate 107-15-3,
 Ethylene diamine, reactions 372-09-8, Cyanoacetic acid 1477-55-0,
 1,3-Benzenedimethanamine 29256-90-4, Diaminocyclohexane
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (novel azonitrile acetate derivative **coupler** for
recording material with improved storage stability)

IT 748795-42-8P 748795-43-9P 748795-44-0P
 RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP
 (Preparation); USES (Uses)
 (novel azonitrile acetate derivative **coupler** for
recording material with improved storage stability)

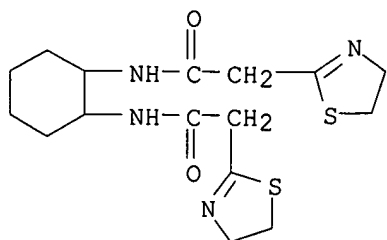
RN 748795-42-8 HCAPLUS
 CN 2-Thiazoleacetamide, N,N'-1,2-ethanediylbis[4,5-dihydro- (9CI) (CA INDEX
 NAME)]



RN 748795-43-9 HCAPLUS
 CN 2-Thiazoleacetamide, N,N'-[1,3-phenylenebis(methylene)]bis[4,5-dihydro-
 (9CI) (CA INDEX NAME)]



RN 748795-44-0 HCAPLUS
 CN 2-Thiazoleacetamide, N,N'-1,2-cyclohexanediylbis[4,5-dihydro- (9CI) (CA
 INDEX NAME)]



L80 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:652513 HCAPLUS
 DN 141:197403
 ED Entered STN: 13 Aug 2004
 TI Azolinyl acetic acid derivative and azolinyl acetic acid derivative
 containing **recording** material
 IN **Saito, Naoki; Matsushita, Tetsunori; Fujita,**
Akinori; Takeuchi, Yohsuke; Higuchi, Satoshi;
Ikeda, Kimi
 PA **Fuji Photo Film Co., Ltd., Japan**
 SO U.S. Pat. Appl. Publ., 25 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 IC ICM G03C0001-492
 INCL 430270100
 CC 74-7 (Radiation Chemistry, **Photochemistry**, and
Photographic and Other **Reprographic** Processes)
 FAN.CNT 1

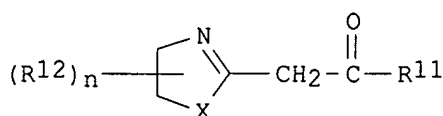
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004157157	A1	20040812	US 2004-773366	20040209 <--
	JP 2004262238	A2	20040924	JP 2004-26855	20040203 <--
PRAI	JP 2003-32490	A	20030210	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004157157	ICM	G03C0001-492
	INCL	430270100
	IPCI	G03C0001-492 [ICM,7]; G03C0001-005 [ICM,7,C*]
	IPCR	G03C0001-52 [I,C*]; G03C0001-54 [I,A]; G03C0001-58 [I,A]
	NCL	430/270.100
	ECLA	G03C001/54; G03C001/58
JP 2004262238	IPCI	B41M0005-30 [ICM,7]; B41M0005-28 [ICS,7]; C07D0209-08 [ICS,7]; C07D0209-00 [ICS,7,C*]; C07D0263-14 [ICS,7]; C07D0263-56 [ICS,7]; C07D0263-00 [ICS,7,C*]; C07D0277-10 [ICS,7]; C07D0277-12 [ICS,7]; C07D0277-22 [ICS,7]; C07D0277-00 [ICS,7,C*]; C07D0295-12 [ICS,7]; C07D0295-00 [ICS,7,C*]; C07D0413-06 [ICS,7]; C07D0413-12 [ICS,7]; C07D0413-00 [ICS,7,C*]
	IPCR	B41M0005-28 [I,A]; B41M0005-28 [I,C*]; B41M0005-30 [I,A]; B41M0005-30 [I,C*]; C07D0209-00 [I,C*]; C07D0209-08 [I,A]; C07D0263-00 [I,C*]; C07D0263-14 [I,A]; C07D0263-56 [I,A]; C07D0277-00 [I,C*]; C07D0277-10 [I,A]; C07D0277-12 [I,A]; C07D0277-22 [I,A]; C07D0295-00 [I,C*]; C07D0295-12 [I,A];

C07D0413-00 [I,C*]; C07D0413-06 [I,A]; C07D0413-12 [I,A]
 FTERM 2H026/AA07; 2H026/AA32; 2H026/BB42; 2H026/BB43;
 2H026/EE00; 2H026/FF05; 4C033/AC07; 4C033/AC10;
 4C033/AC16; 4C056/AA01; 4C056/AB01; 4C056/AC02;
 4C056/AD01; 4C056/AD03; 4C056/AE02; 4C056/BA13;
 4C056/BB01; 4C056/BC01; 4C056/FA16; 4C056/FB01;
 4C056/FC01; 4C063/AA01; 4C063/BB09; 4C063/CC75;
 4C063/CC81; 4C063/DD52; 4C063/EE10; 4C204/BB05;
 4C204/CB03; 4C204/DB01; 4C204/EB01; 4C204/FB17;
 4C204/GB31

OS MARPAT 141:197403
 GI



I

AB The present invention relates to a thermal **recording** material having, on a support, a **recording** layer containing an azolinyl acetic acid derivative and a **diazo** compound. The azolinyl acetic acid derivative is preferably a compound represented by formula I (X = O, S; R₁₁ = alkyl group, an aryl group, a heterocyclic group, -OR₁₃ or -NR₁₄R₁₅; R₁₂ = a substituent; R₁₃ = an alkyl group, an aryl group or a heterocyclic group; R₁₄, R₁₅ = H, an alkyl group, an aryl group or a heterocyclic group; n = 0-4; and, when n ≥ 2, two or more R₁₂s may be linked with each other to form a ring).

ST azolinyl acetic acid deriv thermal **recording** material

IT **Recording materials**
 (thermal; azolinyl acetic acid derivative for thermal **recording** material)

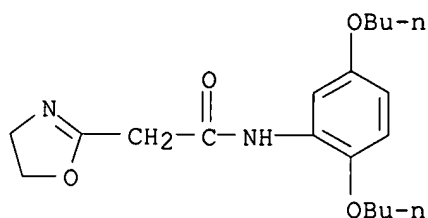
IT **737767-86-1P 737767-87-2P 737767-88-3P**
737767-89-4P 737767-90-7P 737767-91-8P
 RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (azolinyl acetic acid derivative for thermal **recording** material)

IT 75-08-1, Ethanethiol 141-43-5, Ethanamine, reactions 15029-38-6
 178246-71-4 737767-82-7 737767-83-8 737767-84-9 737767-85-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of azolinyl acetic acid derivative for thermal **recording** material)

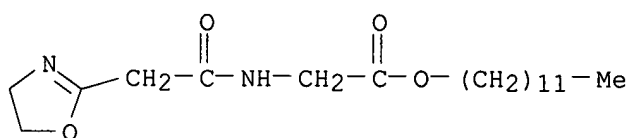
IT **737767-86-1P 737767-87-2P 737767-89-4P**
737767-90-7P
 RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (azolinyl acetic acid derivative for thermal **recording** material)

RN 737767-86-1 HCAPLUS

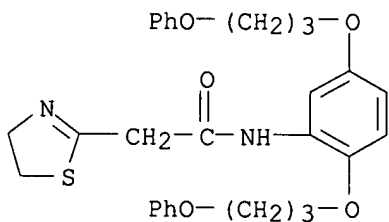
CN 2-Oxazoleacetamide, N-(2,5-dibutoxyphenyl)-4,5-dihydro- (9CI) (CA INDEX NAME)



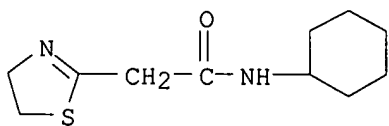
RN 737767-87-2 HCAPLUS
 CN Glycine, N-[(4,5-dihydro-2-oxazolyl)acetyl]-, dodecyl ester (9CI) (CA INDEX NAME)



RN 737767-89-4 HCAPLUS
 CN 2-Thiazoleacetamide, N-[2,5-bis(3-phenoxypropoxy)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)



RN 737767-90-7 HCAPLUS
 CN 2-Thiazoleacetamide, N-cyclohexyl-4,5-dihydro- (9CI) (CA INDEX NAME)



=> d 181 bib abs hitstr retable tot

L81 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:1146213 HCAPLUS
 DN 143:413561
 TI Organic base content-controlled heat-developable diazo recording material with
 IN Ikeda, Kimi
 PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 69 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005297378	A2	20051027	JP 2004-117538	20040413
PRAI	JP 2004-117538		20040413		

OS MARPAT 143:413561

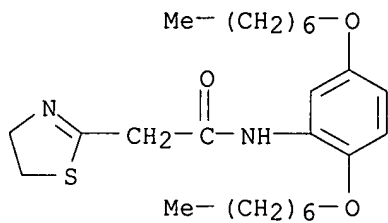
AB The material has a recording layer containing a diazo compound, a coupler, and an organic base with pka >5 in less mol content than that of the diazo compound. The material shows improved color development, hue, and less light stain.

IT 769171-75-7

RL: TEM (Technical or engineered material use); USES (Uses)
(coupler; organic base content-controlled heat-developable diazo recording material)

RN 769171-75-7 HCAPLUS

CN 2-Thiazoleacetamide, N-[2,5-bis(heptyloxy)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)



L81 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:541801 HCAPLUS

DN 143:68419

TI Diazo recording material containing acylhydrazide coupler and diazo compound

IN Saito, Naoki; Ikeda, Takayoshi

PA **Fuji Photo Film Co., Ltd., Japan**

SO Jpn. Kokai Tokkyo Koho, 38 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005161698	A2	20050623	JP 2003-404259	20031203
PRAI	JP 2003-404259		20031203		

OS MARPAT 143:68419

AB The material has a recording layer containing the acylhydrazide coupler and the diazo compound on a support. The material shows improved color developability, raw stock stability, and light stability and reduced background stain.

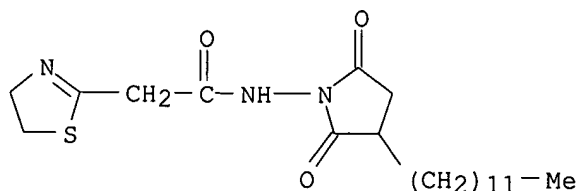
IT 854089-25-1

RL: TEM (Technical or engineered material use); USES (Uses)
(coupler; diazo recording material containing acylhydrazide coupler and diazo compound)

RN 854089-25-1 HCAPLUS

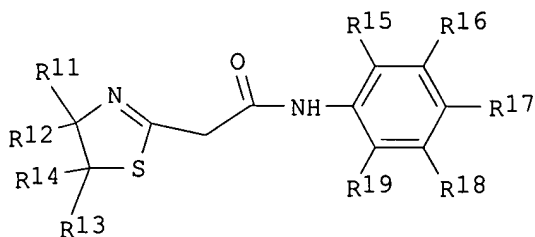
CN 2-Thiazoleacetamide, N-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-4,5-dihydro-

(9CI) (CA INDEX NAME)



L81 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:96013 HCAPLUS
 DN 142:186610
 TI Heat-developable diazo recording material using specific coupler
 IN Higuchi, Satoshi; Arioka, Daisuke; Ikeda, Takayoshi
 PA **Fuji Photo Film Co., Ltd., Japan**
 SO Jpn. Kokai Tokkyo Koho, 42 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005028613	A2	20050203	JP 2003-193339	20030708
PRAI	JP 2003-193339		20030708		
OS	MARPAT 142:186610				
GI					



I

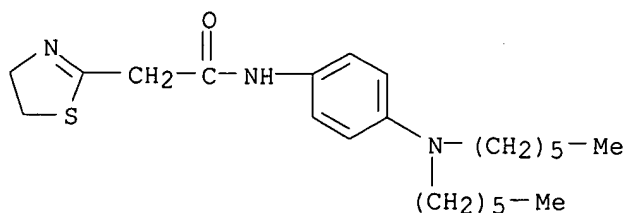
AB The material contains a diazonium compound and a coupler I [R11-14 = H, alkyl, alkoxy, aryloxy, alkoxy carbonyl, aryloxy carbonyl, acyloxy, acyl, carbamoyl, acylamino, sulfamoyl, sulfonamide; R15-19 = H, halo, cyano, alkyl, aryl, alkoxy, aryloxy, alkylthio, arylthio, alkylsulfonyl, arylsulfonyl, alkoxy carbonyl, aryloxy carbonyl, acyloxy, acyl, carbamoyl, acylamino, sulfamoyl, sulfonamide, amino, hydrazino, hydroxyamino, urea, thiourea; ≥ 1 of R16-18 has Hammett's $\sigma_p \leq -0.30$] or its tautomer. The material shows good storage stability and gives clear yellow images with lightfastness.

IT 833487-25-5 833487-26-6 833487-27-7
 833487-28-8 833487-29-9 833487-30-2
 833487-31-3

RL: TEM (Technical or engineered material use); USES (Uses)
 (coupler; heat-developable diazo recording material using specific coupler)

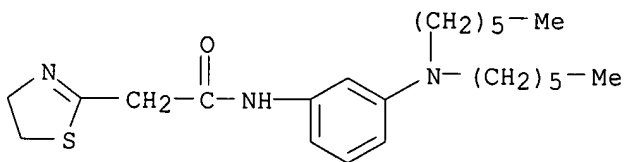
RN 833487-25-5 HCAPLUS

CN 2-Thiazoleacetamide, N-[4-(dihexylamino)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)



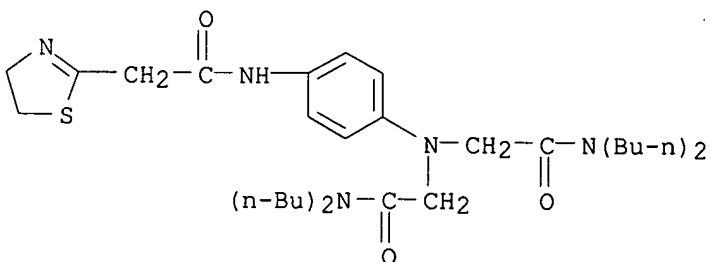
RN 833487-26-6 HCAPLUS

CN 2-Thiazoleacetamide, N-[3-(dihexylamino)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)



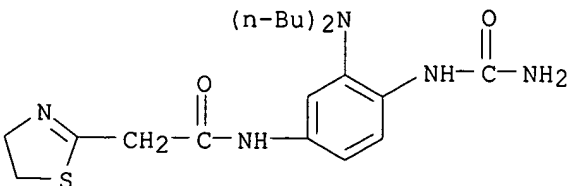
RN 833487-27-7 HCAPLUS

CN 2-Thiazoleacetamide, N-[4-bis[2-(dibutylamino)-2-oxoethyl]amino]phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)



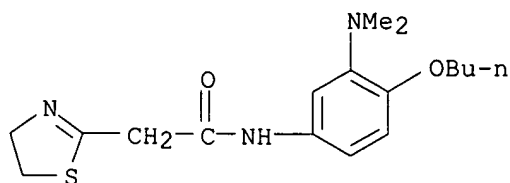
RN 833487-28-8 HCAPLUS

CN 2-Thiazoleacetamide, N-[4-[(aminocarbonyl)amino]-3-(dibutylamino)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)

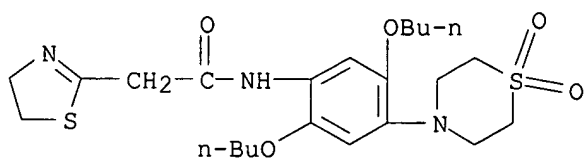


RN 833487-29-9 HCAPLUS

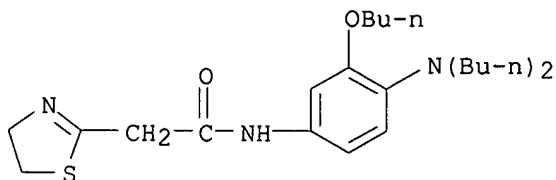
CN 2-Thiazoleacetamide, N-[4-butoxy-3-(dimethylamino)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)



RN 833487-30-2 HCAPLUS
 CN 2-Thiazoleacetamide, N-[2,5-dibutoxy-4-(1,1-dioxido-4-thiomorpholinyl)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)



RN 833487-31-3 HCAPLUS
 CN 2-Thiazoleacetamide, N-[3-butoxy-4-(dibutylamino)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)



L81 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:876324 HCAPLUS

DN 141:358159

TI Heat-developable diazo copying materials producing images with good lightfastness

IN Ikeda, Takayoshi; Saito, Naoki; Kanayama, Shuji

PA **Fuji Photo Film Co., Ltd., Japan**

SO Jpn. Kokai Tokkyo Koho, 52 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004291477	A2	20041021	JP 2003-88531	20030327
PRAI	JP 2003-88531		20030327		

OS MARPAT 141:358159

AB The materials have copying layers containing azolinyllacetic acids as couplers and diazo compds. sandwiched between ≥ 2 layers showing O permeability ≤ 20 mL/m²-day. Thus, a material comprising sequential layers of a PET film, an undercoating layer (O permeability 0.01

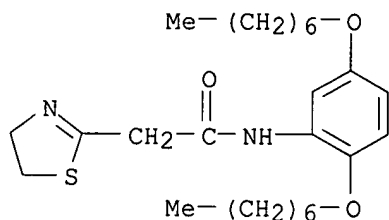
mL/m²-day), a cyan copying layer containing nondiazo dye, an intermediate layer (O permeability 17 mL/m²-day), a magenta copying layer containing a diazonium compound and a coupler, an intermediate layer (O permeability 24 mL/m²-day), a yellow copying layer containing a diazonium compound and a coupler, a light transmission controlling layer (O permeability 4.3 mL/m²-day), and a protective layer (O permeability 152 mL/m²-day).

IT 769171-75-7

RL: TEM (Technical or engineered material use); USES (Uses)
(heat-developable diazo copying materials using azolinylacetic acid couplers and producing images with good lightfastness)

RN 769171-75-7 HCAPLUS

CN 2-Thiazoleacetamide, N-[2,5-bis(heptyloxy)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)



L81 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:816535 HCAPLUS

DN 141:322669

TI Heat-developable diazo recording materials

IN Ikeda, Takayoshi

PA **Fuji Photo Film Co., Ltd., Japan**

SO Jpn. Kokai Tokkyo Koho, 52 pp.

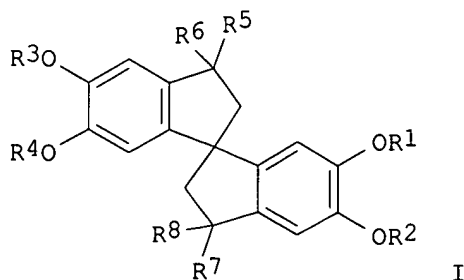
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004276293	A2	20041007	JP 2003-67630	20030313
PRAI	JP 2003-67630		20030313		
OS	MARPAT 141:322669				
GI					



AB The material has a recording layer containing an azolylacetic acid derivative, a diazo compound, and I (R¹-4 = alkyl, aryl, heterocycle; R⁵-8 = H, alkyl,

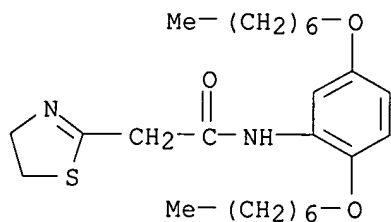
aryl; R5 and R6, and R7 and R8 may form a ring). It shows improved light stability of images.

IT 769171-75-7

RL: TEM (Technical or engineered material use); USES (Uses)
(coupler; heat-developable diazo recording material containing azolylacetic acid coupler and spiroindane compound)

RN 769171-75-7 HCAPLUS

CN 2-Thiazoleacetamide, N-[2,5-bis(heptyloxy)phenyl]-4,5-dihydro- (9CI) (CA INDEX NAME)



=> d bib abs hitstr retable tot

L101 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:261327 HCAPLUS

DN 134:303086

TI Heat developing color photographic material

IN Naruse, Hideaki; Mizukawa, Hiroki

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 66 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001100384	A2	20010413	JP 1999-275755	19990929 <--
	US 6340561	B1	20020122	US 2000-675437	20000929 <--
PRAI	JP 1999-275755	A	19990929	<--	

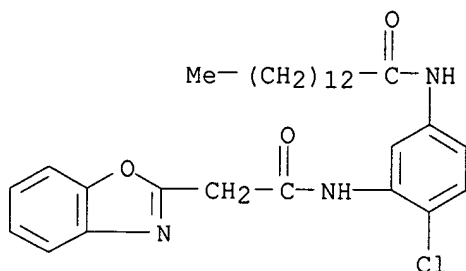
AB In the heat-developable photog. material comprising a support having ≥ 2 photosensitive layers containing photosensitive Ag halide, a binder, a developer, and a colorless **coupler** which **couples** with the developer oxide to form diffusible dye (A), and CpLnDye (I; Cp = **coupler** residue; L = divalent linkage; n = 0, 1; Dye = diffusible dye residue), the colorless **coupler** and I are contained in the different layers and the color of the diffusible dye A is different from that of the dye from I. The material gives clear images without color stain in rapid processing.

IT 329745-84-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination of; preparation of dye **coupler**)

RN 329745-84-8 HCAPLUS

CN 2-Benzoxazoleacetamide, N-[2-chloro-5-[(1-oxotetradecyl)amino]phenyl]- (9CI) (CA INDEX NAME)



L101 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:180941 HCAPLUS

DN 134:229657

TI Diffusion-transfer heat-developable silver halide photographic film

IN Mizukawa, Hiroki; Naruse, Hideaki

PA **Fuji Photo Film Co., Ltd., Japan**

SO Jpn. Kokai Tokkyo Koho, 77 pp.

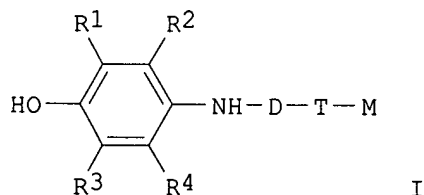
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001066745	A2	20010316	JP 1999-237613	19990824 <--
PRAI	JP 1999-237613		19990824 <--		
OS	MARPAT 134:229657				
GI					



I

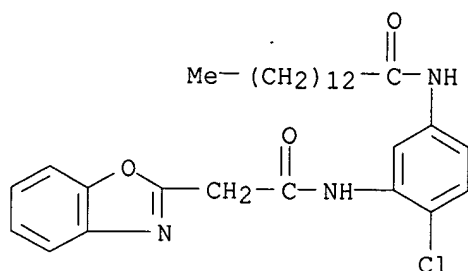
AB The photog. film contains CpLnDye (Cp = **coupler**; L = divalent linkage; n = 0, 1; Dye = diffusible dye residue) as a **coupler** and I (R1-4 = H, substituent; D = divalent group selected from CO, SO, SO2 PO; T = divalent linkage; M = nucleophilic group reactable with D when oxidized; R1 and R2, R3 and R4 may form a ring) or QNHNHR5 (Q = 5 to 7-membered ring bonds to NHNHR5 at C; R5 = carbamoyl, acyl, alkoxy carbonyl, aryloxy carbonyl, aryloxy carbonyl, sulfonyl, sulfamoyl) as a developer. The material gives high d. images with good discrimination by rapid processing.

IT **329745-84-8P**

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of photog. **coupler**)

RN 329745-84-8 HCAPLUS

CN 2-Benzoxazoleacetamide, N-[2-chloro-5-[(1-oxotetradecyl)amino]phenyl]- (9CI) (CA INDEX NAME)



L101 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:739604 HCAPLUS

DN 133:315666

TI Heat-developable photographic material containing phenolic compound as reducing agent

IN Suzuki, Hiroyuki; Sakai, Minoru; Hirano, Shigeo

PA **Fuji Photo Film Co., Ltd., Japan**

SO Jpn. Kokai Tokkyo Koho, 50 pp.

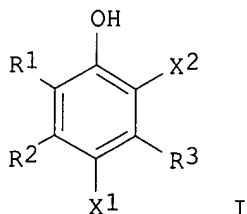
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000292885	A2	20001020	JP 1999-102733	19990409 <--
PRAI	JP 1999-102733		19990409 <--		
OS	MARPAT 133:315666				
GI					



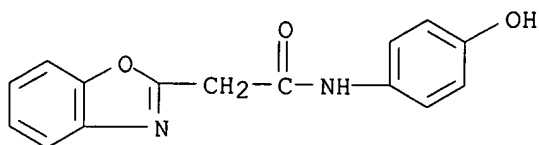
I

AB The material involves an image-forming layer containing a reducible Ag halide, a binder, ≥ 1 phenolic compound selected from I (R_1 -3 = H, substituent; X_1 and/or X_2 = NR₄R₅, the rest is H or other substituent; R_4 and/or R_5 = CO, R₆, POR₇, (R₇)R₈, the rest is H of other substituent; R_6 = electron-withdrawing group-substituted alkyl; R_7 , R_8 = H, alkyl, alkenyl, alkynyl, aryl, heterocyclic ring, amino, OH, alkoxy, or aryloxy which may form a ring), compds. made of 2 or 3 I combined with linking groups, and a polymer having polymeric chains for linking ≥ 2 I, and a reducing agent except for the phenolic compound on ≥ 1 side of a support. The material showed improved stability to changes of heat development conditions.

IT 301665-03-2

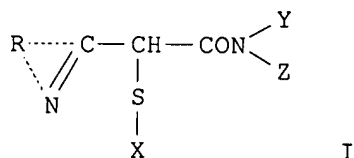
RL: TEM (Technical or engineered material use); USES (Uses)
(heat-developable photog. silver salt material containing phenolic compound as reducing agent showing developability not affected with change of

condition)
 RN 301665-03-2 HCAPLUS
 CN 2-Benzoxazoleacetamide, N-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

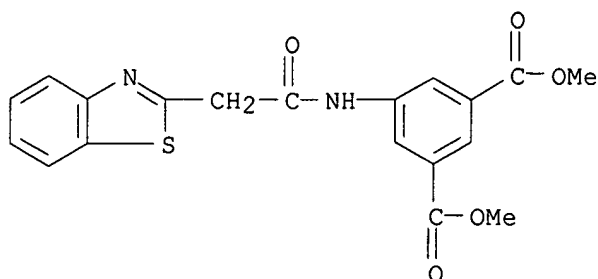


L101 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 1995:721297 HCAPLUS
 DN 123:97793
 TI Stable and fog-free silver halide photographic material
 IN Morita, Kensuke; Kawagishi, Toshio
 PA **Fuji Photo Film Co Ltd, Japan**
 SO Jpn. Kokai Tokkyo Koho, 69 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

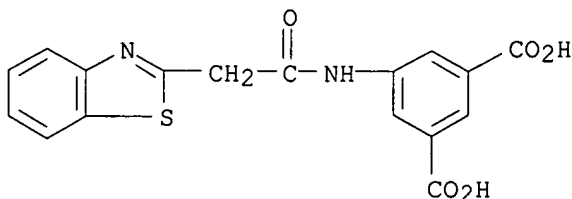
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07134381	A2	19950523	JP 1993-300766	19931108 <--
	JP 3116154	B2	20001211		
PRAI	JP 1993-300766		19931108	<--	
GI					



AB The title photog. material contains compound I (R = non-metallic atoms required to form heterocyclic ring; X = alkyl, cycloalkyl, alkenyl, aryl, heterocyclyl; the total C number of X is in the range of 8-50; Y, Z =H, alkyl, cycloalkyl, alkenyl, aryl, heterocyclyl).
 IT **158658-78-7P 165895-17-0P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepared for preparation of additive for photog. material with good storage stability and free of fog)
 RN 158658-78-7 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, 5-[(2-benzothiazolylacetyl)amino]-, dimethyl ester (9CI) (CA INDEX NAME)



RN 165895-17-0 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, 5-[(2-benzothiazolylacetyl)amino]- (9CI)
 (CA INDEX NAME)



L101 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1994:667670 HCAPLUS

DN 121:267670

TI silver halide color photographic material

IN Morita, Kensuke; Kawagishi, Toshio; Ishii, Yoshio

PA **Fuji Photo Film Co Ltd, Japan**

SO Jpn. Kokai Tokkyo Koho, 68 pp.

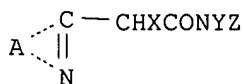
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06082998	A2	19940325	JP 1992-257578	19920902 <--
PRAI	JP 1992-257578		19920902	<--	
OS	MARPAT 121:267670				
GI					



I

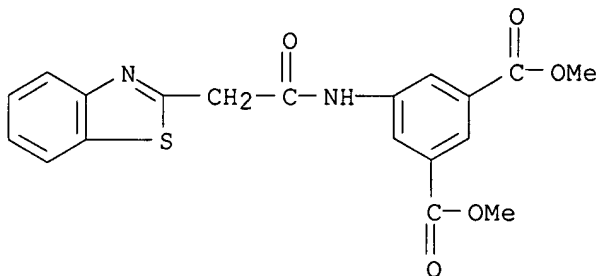
AB A silver halide color photog. material showing improved storage stability and reduced staining after processing comprises a compound represented by the formula I (A = a nonmetallic group necessary for forming a heterocyclic ring along with the -N=C- group; Y, Z = H, an aliphatic group, an aromatic group, or a heterocyclic group; X = a diffusion-resistant group which forms a leachable dye upon reaction with an oxidized developing agent).

IT 158658-78-7

RL: RCT (Reactant); TEM (Technical or engineered material use); RACT
(Reactant or reagent); USES (Uses)
(bleachable dye-forming photog. **coupler** preparation using)

RN 158658-78-7 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-[(2-benzothiazolylacetyl)amino]-, dimethyl
ester (9CI) (CA INDEX NAME)



L101 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1992:458742 HCAPLUS

DN 117:58742

TI Formalin-resistive silver halide color photographic photosensitive
materials

IN Kaguchi, Hiroyuki; Hirabayashi, Shigeto

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03140948	A2	19910614	JP 1989-279254	19891026 <--
PRAI	JP 1989-279254		19891026 <--		

AB In the title material having on a support at least 1 photosensitive Ag
halide emulsion layer and at least 1 nonphotosensitive layer located
farther from the support than at least 1 of the photosensitive Ag halide
emulsion layers, at least 1 of the nonphotosensitive layers contains a
dischargeable 4-equivalent photog. **coupler** (a formalin scavenger
dischargeable into processing solns. after development without remaining
in the final images).

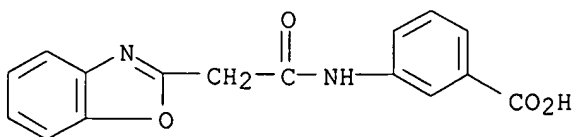
IT 138826-77-4

RL: USES (Uses)

(dischargeable four-equivalent photog. **coupler**, as formalin
scavenger)

RN 138826-77-4 HCAPLUS

CN Benzoic acid, 3-[(2-benzoxazolylacetyl)amino]- (9CI) (CA INDEX NAME)



L101 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1992:43076 HCAPLUS

DN 116:43076

TI Azo pigments, their preparation and use

IN Jung, Ruediger; Deubel, Reinhold

PA Hoechst A.-G., Germany

SO Ger. Offen., 45 pp.

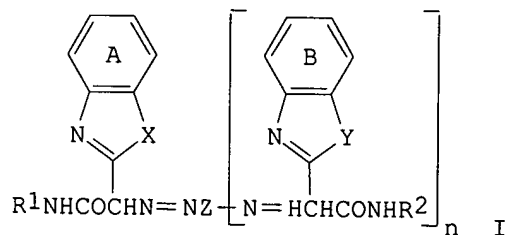
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4007535	A1	19910912	DE 1990-4007535	19900309 <--
	WO 9113941	A1	19910919	WO 1991-EP384	19910301 <--
	W: AU, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	AU 9173462	A1	19911010	AU 1991-73462	19910301 <--
	AU 641483	B2	19930923		
	EP 518909	A1	19921223	EP 1991-905075	19910301 <--
	EP 518909	B1	19940525		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 05504370	T2	19930708	JP 1991-505169	19910301 <--
	US 5493011	A	19960220	US 1992-934479	19921106 <--
PRAI	DE 1990-4007535	A	19900309	<--	
	WO 1991-EP384	A	19910301	<--	
OS	MARPAT 116:43076				
GI					



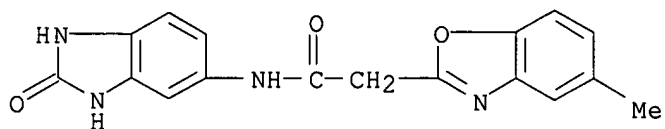
AB The pigments (I; R1, R2 = carbocyclic or heterocyclic aromatic group; X, Y = O, NH, NR3; R3 = aliphatic or aromatic group; n = 0, 1; Z = aromatic **diazo** or **bisdiazo** component residue; rings A and B may be substituted or annelated) are prepared by azo **coupling** and are suitable for plastics, textiles, and paper. Thus, Et 2-benzimidazolylacetate was condensed with 2-aminoanisole to give the methoxyanilide (II). 4-Chloro-2-nitroaniline was **diazotized** and **coupled** with II to give reddish yellow I (R1 = o-methoxyphenyl; X = NH; Z = 4-chloro-2-nitrophenyl; n = 0).

IT **138399-32-3P 138399-39-0P 138399-40-3P**
138399-41-4P 138399-42-5P

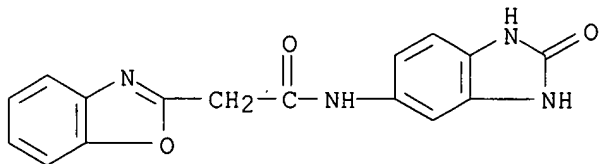
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of, as azo **coupling** component)

RN 138399-32-3 HCAPLUS

CN 2-Benzoxazoleacetamide, N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-5-methyl- (9CI) (CA INDEX NAME)

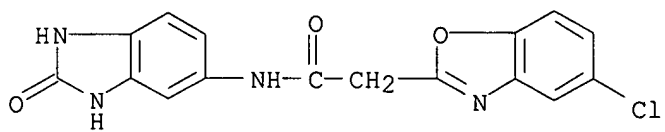


RN 138399-39-0 HCAPLUS

CN 2-Benzoxazoleacetamide, N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)- (9CI)
(CA INDEX NAME)

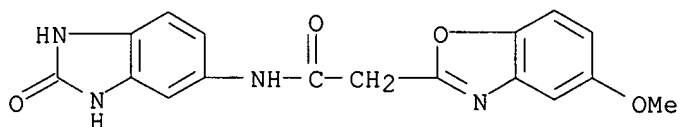
RN 138399-40-3 HCAPLUS

CN 2-Benzoxazoleacetamide, 5-chloro-N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)- (9CI) (CA INDEX NAME)

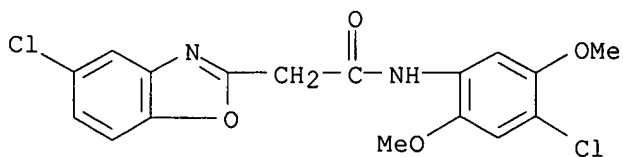


RN 138399-41-4 HCAPLUS

CN 2-Benzoxazoleacetamide, N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-5-methoxy- (9CI) (CA INDEX NAME)



RN 138399-42-5 HCAPLUS

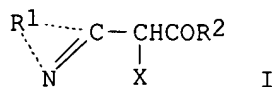
CN 2-Benzoxazoleacetamide, 5-chloro-N-(4-chloro-2,5-dimethoxyphenyl)- (9CI)
(CA INDEX NAME)

L101 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1990:581279 HCAPLUS

DN 113:181279
 TI Silver halide color photographic material containing development inhibitor-releasing **coupler** and hydrophobic two-equivalent yellow **coupler**
 IN Ichijima, Yasushi; Shimada, Yasuhiro
 PA **Fuji Photo Film Co., Ltd., Japan**
 SO Jpn. Kokai Tokkyo Koho, 35 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

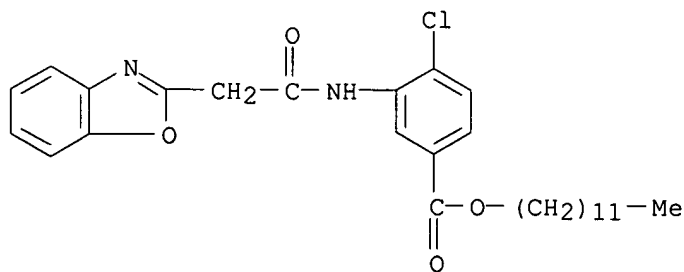
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02044337	A2	19900214	JP 1988-194640	19880805 <--
PRAI	JP 1988-194640		19880805	<--	
GI					



AB The title color photog. material contains ≥ 1 DIR **coupler** (I) [R1 = group necessary to form a heterocyclic ring with N:C moiety; R2 = organic moiety; X = group forming development inhibitor], and ≥ 1 hydrophobic 2-equivalent yellow **coupler**, R3COC(Y)HCONHR4 [R3 = aromatic, 3° alkyl; R4 = aromatic; Y = aromatic oxy, or N-containing unsatd. 5-membered ring, 5-membered cyclic amide; R3, R4, or Y becomes divalent to form a polymer **coupler**]. The color photog. material shows improved sharpness.

IT **130110-28-0**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, as development inhibitor-releasing **coupler**)

RN 130110-28-0 HCAPLUS
 CN Benzoic acid, 3-[(2-benzoxazolylacetyl)amino]-4-chloro-, dodecyl ester (9CI) (CA INDEX NAME)



L101 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 1990:226674 HCAPLUS
 DN 112:226674
 TI Color photographic material containing heterocyclic carbamoyl yellow dye-forming **coupler**
 IN Ogawa, Akira; Ishii, Yoshio; Ichijima, Yasushi
 PA **Fuji Photo Film Co., Ltd., Japan**

SO Jpn. Kokai Tokkyo Koho, 33 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01233452	A2	19890919	JP 1988-60074	19880314 <--
PRAI	JP 1988-60074		19880314	<--	

GI For diagram(s), see printed CA Issue.

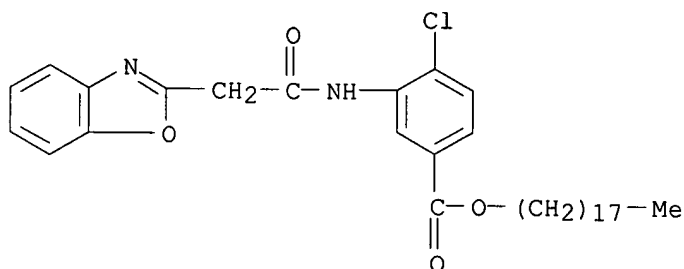
AB The title color photog. material contains a dye-forming **coupler** of the structure I [R1 = a group necessary to form a 5-membered unsatd. heterocyclic ring with CCX1HCONHR2(B2)m; R2 = an aromatic group; B1, B2 = a ballast group; X1 ≠ a photog. useful group, and X1 = a group to be released upon reaction with an oxidized aromatic primary amine developer; n, m = 0, 1; n + m = 1]. A photog. material using I shows improved sharpness and sensitivity.

IT **127192-29-4**

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, heterocyclic carbamoyl photog. yellow **coupler** from)

RN 127192-29-4 HCAPLUS

CN Benzoic acid, 3-[(2-benzoxazolylacetyl)amino]-4-chloro-, octadecyl ester (9CI) (CA INDEX NAME)



L101 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1990:226673 HCAPLUS

DN 112:226673

TI Color photographic material containing photographic useful group-releasing compound

IN Ogawa, Akira; Ichijima, Yasushi

PA **Fuji Photo Film Co., Ltd., Japan**

SO Jpn. Kokai Tokkyo Koho, 27 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01233451	A2	19890919	JP 1988-61331	19880315 <--
PRAI	JP 1988-61331		19880315	<--	

GI For diagram(s), see printed CA Issue.

AB The title color photog. material contains ≥1 compound of the structure I [R1 = group necessary to form an unsatd. 5-membered N-containing ring with CCHR2X1(DI)n; R2 = CO2R3, CONHR4; R3, R4 = aliphatic, aromatic; X1 = a group releasing n-DI- upon reaction with an oxidized aromatic primary amine

developer after releasing -X1(DI)n upon reaction with an oxidized aromatic primary amine developer; DI = photog. useful group; n = 1, 2]. A development inhibitor-releasing compound is an example of I.

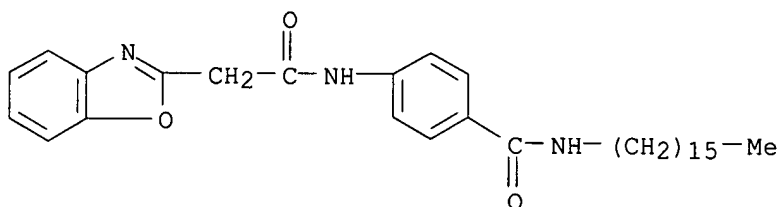
IT 127192-43-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, photog. development inhibitor-releasing compound from)

RN 127192-43-2 HCAPLUS

CN 2-Benzoxazoleacetamide, N-[4-[(hexadecylamino)carbonyl]phenyl]- (9CI) (CA INDEX NAME)



L101 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1990:207777 HCAPLUS

DN 112:207777

TI Color photographic material containing dye-forming **coupler**

IN Ogawa, Akira; Ishii, Yoshio; Ichijima, Yasushi

PA **Fuji Photo Film Co., Ltd., Japan**

SO Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01237656	A2	19890922	JP 1988-63671	19880318 <--
PRAI	JP 1988-63671		19880318 <--		

GI For diagram(s), see printed CA Issue.

AB The title color photog. material contains a dye-forming **coupler** of the structure I [R1 = a group necessary to form a N-containing 5- or 6-membered unsatd. heterocyclic ring; R2 = halo, alkoxy; B1 = ballast group; X1 = a group to be released upon reaction with an oxidized aromatic primary amine developer]. I is especially useful as a yellow dye-forming **coupler**.

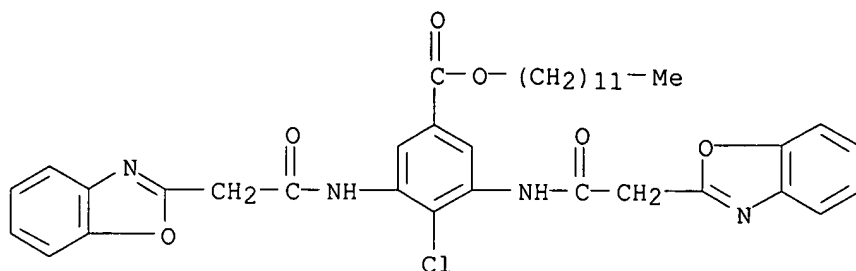
IT 126793-83-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, photog. yellow **coupler** from)

RN 126793-83-7 HCAPLUS

CN Benzoic acid, 3,5-bis[(2-benzoxazolylacetyl)amino]-4-chloro-, dodecyl ester (9CI) (CA INDEX NAME)



L101 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1974:146965 HCAPLUS

DN 80:146965

TI Azo dyes

IN Lauer, Dieter; Dehnert, Johannes

PA BASF A.-G.

SO Ger. Offen., 32 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2232449	A1	19740110	DE 1972-2232449	19720701 <--
PRAI	DE 1972-2232449	A	19720701	<--	

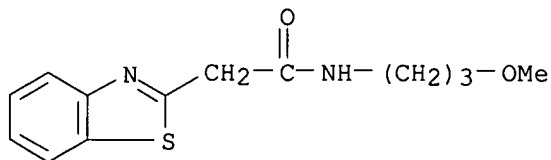
AB **Coupling of diazotized** RNH₂ (R = substituted phenyl or anthraquinonyl) with 2-(2-benzothiazolyl)acetamides or alkyl (2-benzothiazolyl)acetates gave azo dyes I [R₁ = NH₂, NH(CH₂)₃OMe, NHCH₂CH₂Ph, alkoxy; n = 0 or 1], fast yellow to orange on polyamide (n = 1) and polyester (n = 0) fibers. Thus, 2,4-O₂N(HO₃S)C₆H₃NH₂ was **diazotized and coupled** with 2-(2-benzothiazolyl)acetamide [51542-41-7] (prepared from o-H₂NC₆H₄SH and NCCH₂CONH₂) to give azo dye II [51478-86-5], light- and washfast yellow on polycaprolactam. Similarly, **diazotized** 4,2-Cl(O₂N)C₆H₃NH₂ was **Coupled** with 2-(2-benzothiazolyl)-N-phenethylacetamide [51478-95-6] to give azo dye I [R = 4,2-Cl(O₂N)C₆H₃, R₁ = NHCH₂CH₂Ph, n = 0] [51478-91-2], fast yellow on polyester fibers. Nine other dyes were prepared

IT **51478-93-4P 51478-95-6P**

RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of and **coupling** with **diazotized**
chloronitroaniline)

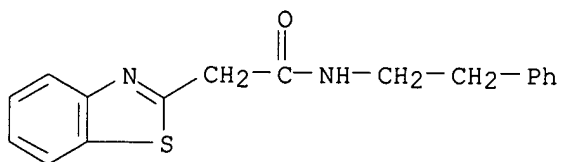
RN 51478-93-4 HCAPLUS

CN 2-Benzothiazoleacetamide, N-(3-methoxypropyl)- (9CI) (CA INDEX NAME)



RN 51478-95-6 HCAPLUS

CN 2-Benzothiazoleacetamide, N-(2-phenylethyl)- (9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 13:05:28 ON 02 OCT 2006)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 13:05:42 ON 02 OCT 2006

L1	1	S	US20040157157/PN OR (US2004-773366# OR JP2003-32490)/AP, PRN
		E	SAITO/AU
L2	10	S	E3
		E	SAITO N/AU
L3	1181	S	E3-E6, E24, E44
		E	NAOKI/AU
L4	2	S	E3, E50
		E	MATSUSHITA/AU
L5	3	S	E3
		E	MATSUSHITA T/AU
L6	663	S	E3, E72, E77
		E	MATSUSHITA NAME/AU
L7	18	S	E4
		E	TETSUNORI/AU
		E	FUJITA/AU
L8	5	S	E3
L9	182	S	E4, E5
L10	47	S	E27
		E	FUJITA NAME/AU
L11	54	S	E4
		E	AKINORI/AU
		E	TAKEUCHI/AU
		E	TAKEUCHI Y/AU
L12	622	S	E3-E5
		E	TAKEUCHI YOH/AU
L13	10	S	E5, E6
		E	TAKEUCHI NAME/AU
L14	64	S	E4
		E	YOHISUKE/AU
		E	HIGUCHI/AU
L15	2	S	E3
		E	HIGUCHI S/AU
L16	165	S	E3
L17	58	S	E19
		E	HIGUCHI NAME/AU
L18	14	S	E4
		E	SATOSHI/AU
L19	2	S	E3
L20	4	S	E63
		E	IKEDA/AU
L21	2	S	E3
		E	IKEDA K/AU

L22 868 S E3-E5
 E IKEDA KIMI/AU
 L23 18 S E3
 L24 35 S E4-E9
 E IKEDA NAME/AU
 L25 82 S E4
 E KIMI/AU
 SEL RN L1

FILE 'REGISTRY' ENTERED AT 13:11:10 ON 02 OCT 2006

L26 14 S E1-E14
 L27 STR
 L28 45 S L27
 L29 STR L27
 L30 31 S L29
 L31 687 S L29 FUL
 SAV L31 CHU773/A
 L32 STR L29
 L33 0 S L32 CSS SAM SUB=L31
 L34 4 S L26 AND L31

FILE 'HCAOLD' ENTERED AT 13:14:42 ON 02 OCT 2006

L35 6 S L31
 SEL AN
 EDIT E15-E20 /AN /OREF

FILE 'HCAPLUS' ENTERED AT 13:15:13 ON 02 OCT 2006

L36 9 S E15-E20
 L37 6 S L36 NOT (BILLMAN ? OR ASINGER ? OR MAHAPATRA ?)/AU
 L38 123 S L31
 L39 5 S L38 AND L37
 L40 6 S L37,L39
 L41 9 S L38 AND L1-L25
 E TAKEUCHI YOSUKE/AU
 L42 70 S E3,E4
 E YOSUKE/AU
 L43 2 S L38 AND L42
 L44 9 S L41,L43
 L45 22 S L38 AND FUJI?/PA,CS
 L46 111 S L38 AND (PY<=2003 OR PRY<=2003 OR AY<=2003)
 L47 38 S L46 NOT P/DT
 L48 73 S L46 NOT L47
 L49 64 S L48 AND (PD<=20030210 OR PRD<=20030210 OR AD<=20030210)
 L50 102 S L47,L49
 L51 5 S L44 AND L46
 L52 105 S L50,L51
 E RECORDING MATERIAL/CT
 L53 3700 S E16
 E E4+ALL
 L54 209903 S E2+OLD,NT
 E E47+ALL
 E E2+ALL
 E E57+ALL
 L55 250289 S E2+OLD,NT
 E E66+ALL
 L56 243502 S E1+OLD,NT
 L57 20 S L52 AND L53-L56
 L58 29 S (PHOTO? OR REPROGRAPH?)/SC,SX AND L52
 L59 4 S RECORDING AND L52
 L60 29 S L57-L59

L61 8 S L60 AND ?DIAZO?
L62 14 S L60 AND ?COUPL?
L63 16 S L61,L62
L64 16 S L51,L63
L65 13 S L60 NOT L64
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 13:24:20 ON 02 OCT 2006

L66 46 S E1-E46
L67 43 S L66 AND (NCOC2-C6 OR NCSC2-C6)/ES
L68 3 S L66 NOT L67

FILE 'HCAPLUS' ENTERED AT 13:25:54 ON 02 OCT 2006
SEL HIT RN L64

FILE 'REGISTRY' ENTERED AT 13:25:58 ON 02 OCT 2006

L69 31 S E47-E77
L70 15 S L69 AND (NCOC2-C6 OR NCSC2-C6)/ES
L71 16 S L69 NOT L70

FILE 'HCAPLUS' ENTERED AT 13:27:12 ON 02 OCT 2006

L72 7 S L71
L73 6 S L72 AND L44
L74 7 S L72 AND FUJI?/PA,CS
L75 2 S L72-L74 AND (PD<=20030210 OR PRD<=20030210 OR AD<=20030210)
L76 2 S L75 AND (?DIAZO? OR ?COUPL?)
L77 2 S L75 AND L53-L56
L78 2 S L75 AND (PHOTO? OR REPROGRAPH?)/SC,SX
L79 2 S L75 AND RECORD?
L80 2 S L75-L79
L81 5 S L74 NOT L80

FILE 'REGISTRY' ENTERED AT 13:29:18 ON 02 OCT 2006

FILE 'HCAPLUS' ENTERED AT 13:29:39 ON 02 OCT 2006

FILE 'REGISTRY' ENTERED AT 13:31:45 ON 02 OCT 2006

L82 24 S L67 AND 3/NR
L83 22 S L82 NOT NC2OC2/ES
L84 19 S L67 NOT L82
L85 11 S L84 AND 2/NR
L86 33 S L83,L85
L87 10 S L67 NOT L86
SEL RN 6 7 9 10
L88 4 S E78-E81
L89 37 S L86,L88
L90 50 S L70,L89

FILE 'HCAPLUS' ENTERED AT 13:36:04 ON 02 OCT 2006

L91 24 S L90
L92 24 S L91 AND (PD<=20030210 OR PRD<=20030210 OR AD<=20030210)
L93 0 S L92 AND L1-L25
L94 0 S L92 AND L42,L43
L95 9 S L92 AND FUJI?/PA,CS
L96 13 S L92 AND L53-L56
L97 0 S L92 AND RECORD?
L98 21 S L92 AND (PHOTO? OR REPROGRAPH?)/SC,SX
L99 11 S L92-L98 AND (?DIAZO? OR ?COUPL?)
L100 13 S L95,L99
L101 12 S L100 NOT 46:26032/DN

=>